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ART. VII.—*The Total Solar Eclipse of May 9th, 1929.*

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On May 9th, 1929, a Total Solar Eclipse will take place, and will be visible from Northern Sumatra, Malaya and Cochin China. It seems worth directing attention to the fact that this is the only Total Solar Eclipse in the next ten years to exceed 160 seconds duration, and therefore of any real use in the solution of solar Physical problems.

No information regarding trigonometrical surveys of the country has been received up to the present, so it is therefore hardly possible to ascertain what places of importance lie on the centre line. Special meteorological observations are in hand, and the result of these will be made available in due course.

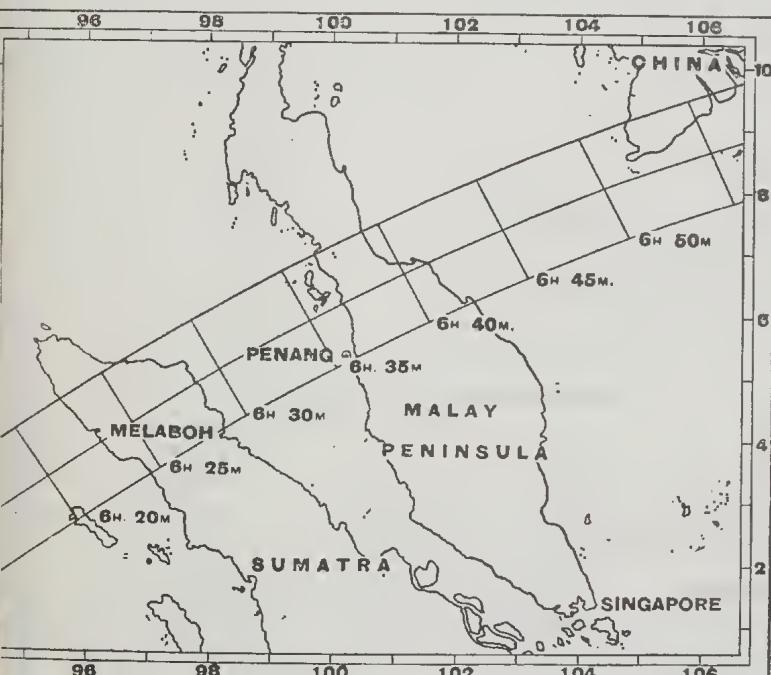


FIG. 1.

Track of Total Solar Eclipse of 9th May, 1929.

The following table gives the path of the shadow and the duration of totality at the centre line:—

G.C.T. H. M.	N. Limit		Central Line		S. Limit		Duration M. S.
	Lat. N.	Long. E.	Lat. N.	Long. E.	Lat. N.	Long. E.	
6 15	- 3° 15.1'	- 93° 32.1'	- 2° 31.9'	- 94° 1.8'	- 1° 48.5'	- 94° 31.5'	- 5 7.3
20	- 4 10.9	- 94 53.4	- 3 27.1	- 95 22.6	- 2 43.1	- 95 51.7	- 5 7.2
25	- 5 4.3	- 96 16.6	- 4 19.9	- 96 45.2	- 3 35.4	- 97 13.7	- 5 6.5
30	- 5 55.0	- 97 42.2	- 5 10.1	- 98 10.2	- 4 25.2	- 91 38.1	- 5 5.0
35	- 6 43.2	- 99 10.8	- 5 57.8	- 99 38.1	- 5 12.4	- 100 5.3	- 5 2.7
40	- 7 28.6	- 100 42.8	- 6 42.8	- 101 9.3	- 5 57.0	- 101 35.8	- 4 59.7
45	- 8 11.3	- 102 18.8	- 7 25.0	- 102 44.4	- 6 38.7	- 103 10.0	- 4 55.9
50	- 8 51.0	- 103 59.3	- 8 4.3	- 104 24.0	- 7 17.6	- 104 48.7	- 4 51.2
55	- 9 27.5	- 105 45.2	- 8 40.5	- 106 8.8	- 7 53.5	- 106 32.6	- 4 45.7
7 0	- 10 0.5	- 107 37.4	- 9 13.2	- 107 59.9	- 8 25.9	- 108 22.7	- 4 39.4

ELEMENTS OF ECLIPSE.

						h.	m.	s.
G.M.T. of Conjunction in R.A., May 9th	-	-	-	-	-	5	58	0.2
Right Ascension of Sun and Moon	-	-	-	-	-	3	2	36.7
Sun's hourly motion	-	-	-	-	-	-	-	9.73
Moon's hourly motion	-	-	-	-	-	-	-	144.02
Sun's Declination	-	-	-	-	+ 17° 14' 1.9"			
Hourly Motion	-	-	-	-	+ 40.4"			
Moon's Declination	-	-	-	-	+ 16° 55' 16.8"			
Hourly Motion	-	-	-	-	+ 13' 31.2"			
Sun's Equatorial Horizontal Parallax	-	-				8.7"		
Sun's True Semi Diameter	-	-				15' 50.3"		
Moon's Equatorial Horizontal Parallax	-	-				60' 24.7"		
Moon's True Semi Diameter	-	-				16' 26.9"		

CIRCUMSTANCES OF ECLIPSE.

			Longitude	Latitude
Eclipse begins	- -	May 9th	3 hrs. 32.5m.	- 46° 47'
Central Eclipse begins	-	May 9th	4 hrs. 30.2m.	- 36° 46'
Centre of Eclipse at local apparent noon,	- -	May 9th	5 hrs. 58.0m.	- 0° 54'
Central Eclipse ends	-	May 9th	7 hrs. 50.1m.	+ 4° 48'
Eclipse ends	- -	May 9th	8 hrs. 47.7m.	+ 10° 30'